

*California Department of Transportation  
Division of Maintenance*

***Structure Maintenance and Investigations***

---

**B**RIDGE

**I**NSPECTION

**R**ECORDS

**I**NFORMATION

**S**YSTEM

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The requested documents have been generated by BIRIS.

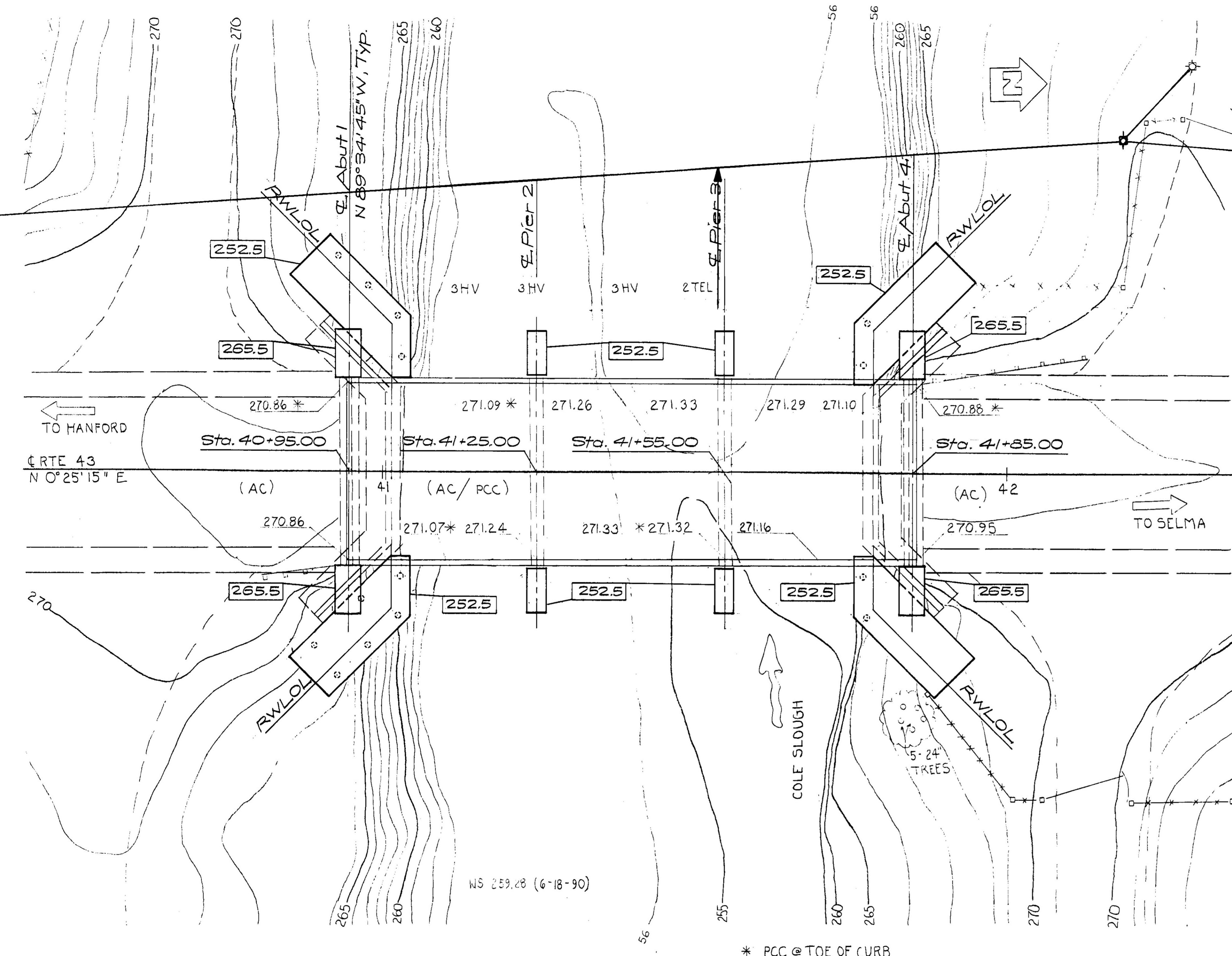
These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/8.3	45	50

Ken Kwong  
REGISTERED ENGINEER-CIVIL

3-11-91  
PLANS APPROVAL DATE



AS BUILT  
CORRECTIONS BY HATIE WALKER  
CONTRACT NO. 06-343554  
DATE 1-21-92  
NO AS BUILT CHANGES

HYDROLOGIC SUMMARY		
DRAINAGE AREA : * * * SQUARE MILES		
DESIGN FLOOD	BASE FLOOD	OVERTOPPING FLOOD
50	100	NA
3300	3900	NA
WATER SURFACE (ELEVATION AT BRIDGE) 268.0	269.7	271.3

FLOOD PLAIN DATA ARE BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED BY THE STATE AND INTERESTED OR AFFECTIONATE PARTIES SHOULD MAKE THEIR OWN INVESTIGATION.

#### Notes:

[252.5] - Denotes bottom of ftg-elev.

All piles not shown.

Overhead power lines to be relocated prior to construction.

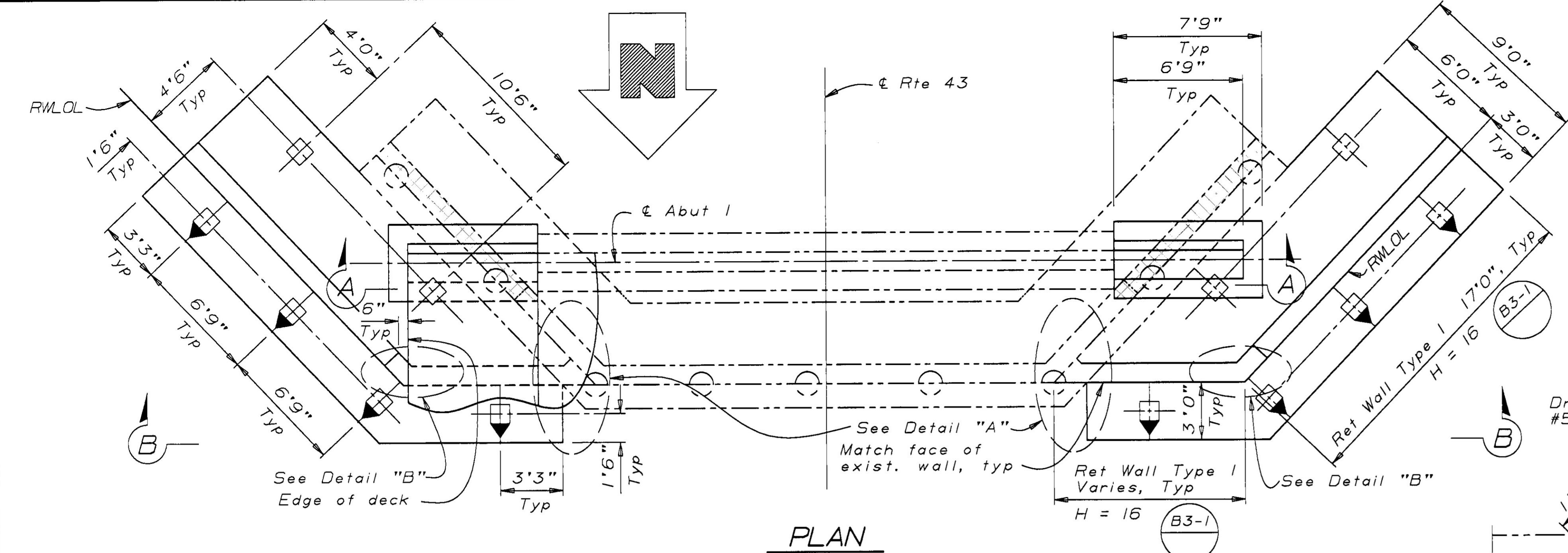
\* \* SEE HYDROGRAPHIC SUMMARY

PR-4281-1

PRELIMINARY INVESTIGATION SECTION						DESIGN BY D. Dunrud	CHECKED BY Ken Kwong	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION			BRIDGE NO. 42-81	COLE SLOUGH (WIDEN)		
SCALE 1" = 1'	DATUM AS BUILTS	PHOTOGRAMMETRY AS OF:	DRAWN BY MLM 7/90	DETAILS BY R.K.WONG	QUANTITIES BY D. Dunrud				DIVISION OF STRUCTURES	STRUCTURE DESIGN	POST MILE 0.8	FOUNDATION PLAN		
ALIGNMENT TIES AS BUILTS		FIELD CHECKED BY TR	CHECKED BY RJB 8-90			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0			CU 06250 EA 343551			DISREGARD PRINTS BEARING EARLIER REVISION DATES → 1/16/90	REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF 2 7	
DS OSD 2145 (4/89) 69-5339														

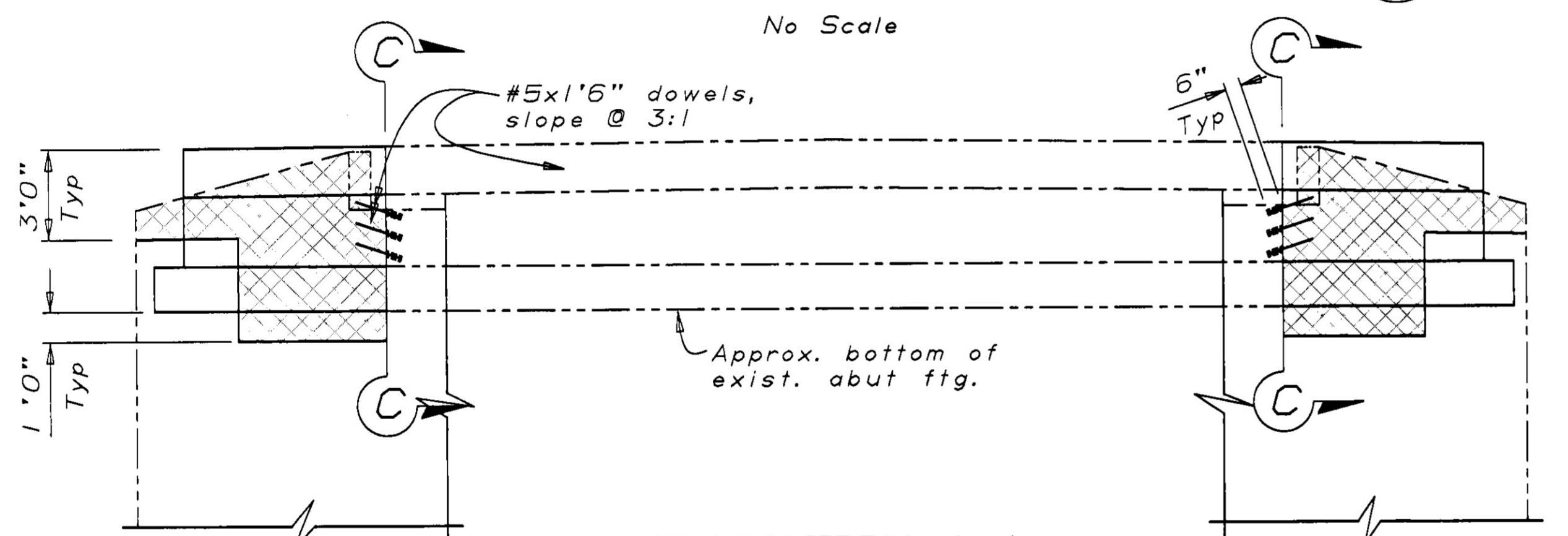
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/8.3	46	50

*Ken Kwong*  
REGISTERED ENGINEER CIVIL  
Ken Kwong  
No. 34942  
Exp. 9-30-91  
CIVIL  
STATE OF CALIFORNIA



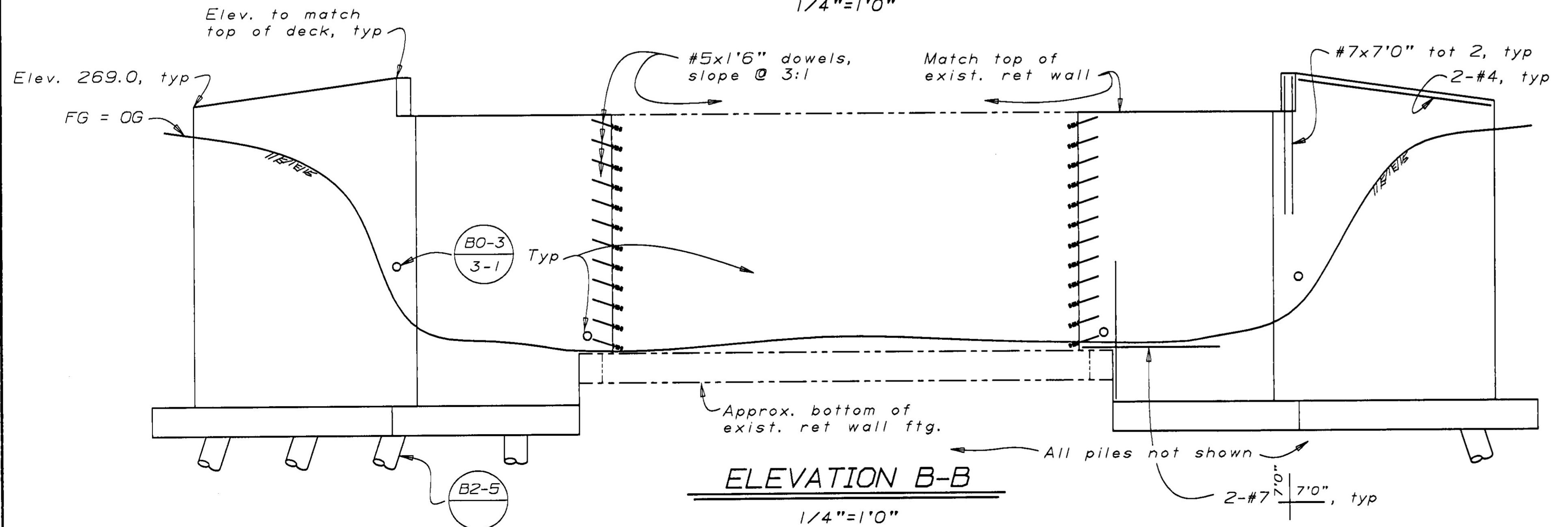
PLAN

No Scale



ELEVATION A-A

1/4"=1'0"

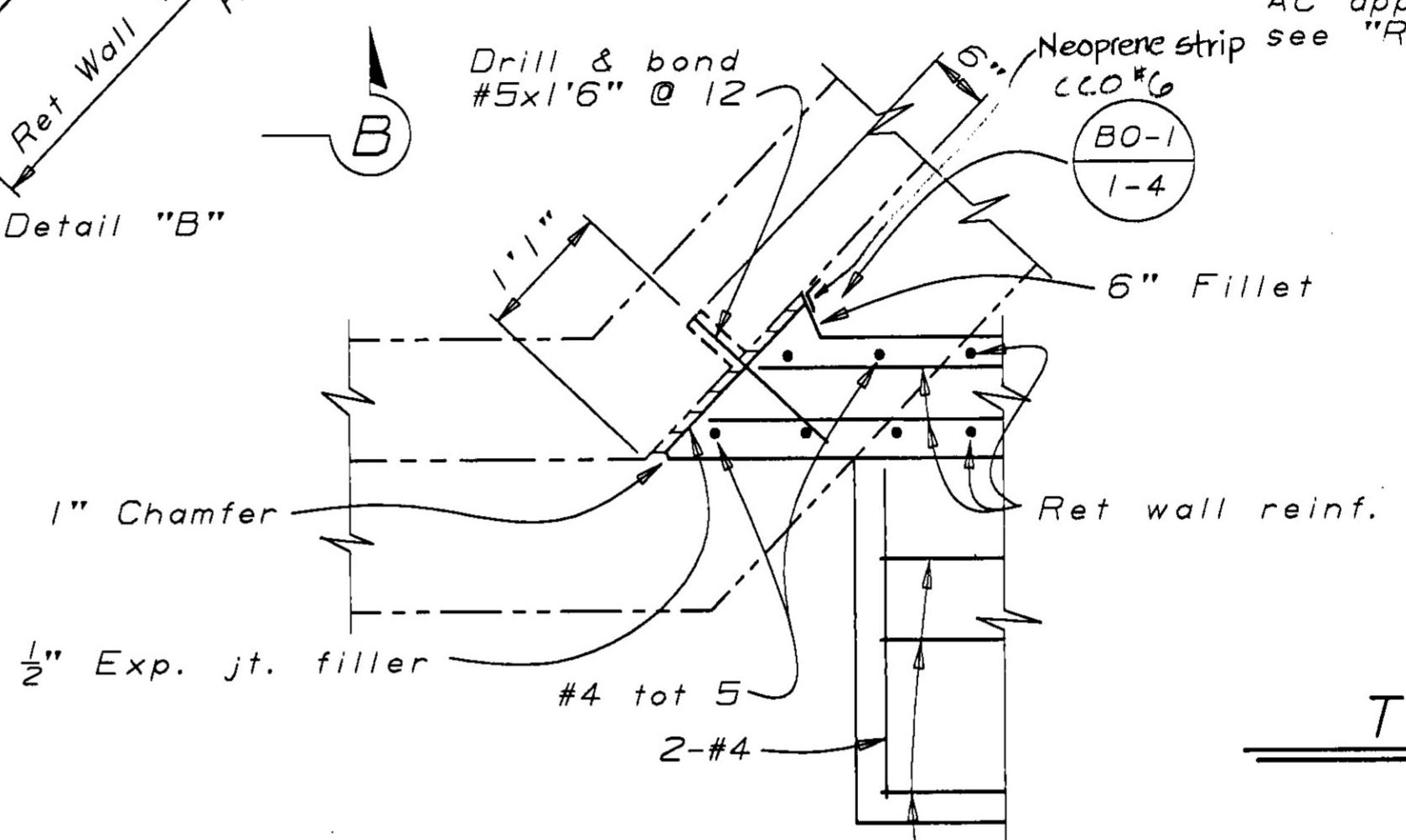


ELEVATION B-B

1/4"=1'0"

Notes:  
Abut 1 shown, Abut 4 similar.  
- Denotes concrete removal  
Subexcavate 2' below & 2' around perimeter of new abut footing and replace with structural backfill.  
- Denotes battered pile @ 1:3

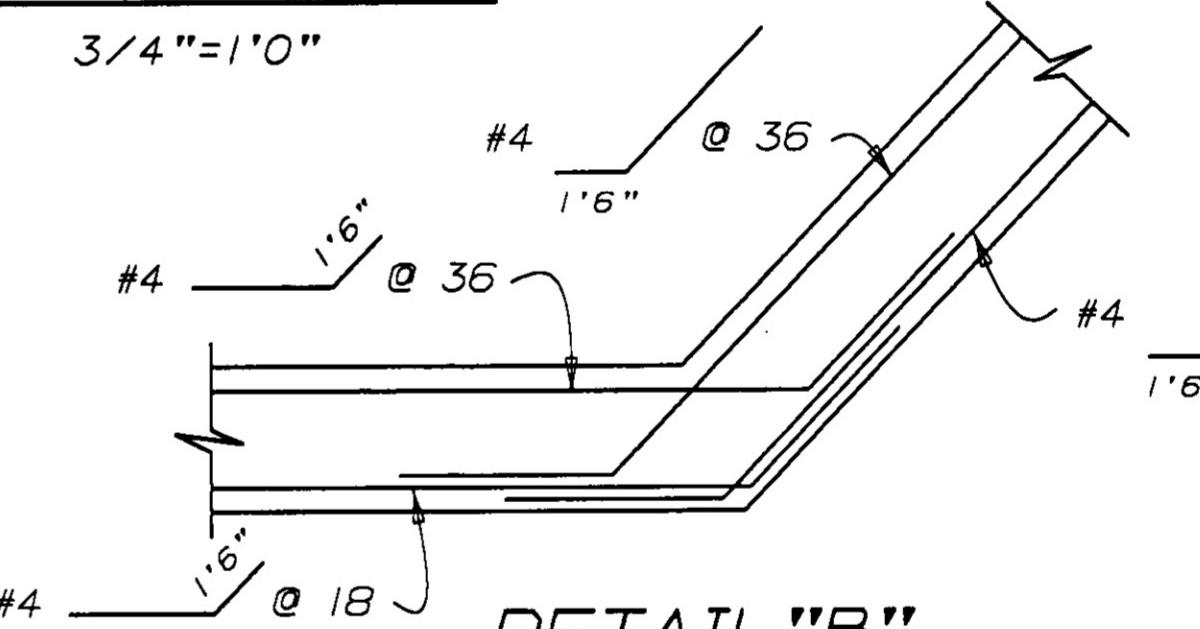
NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL



TYPICAL ABUTMENT SECTION

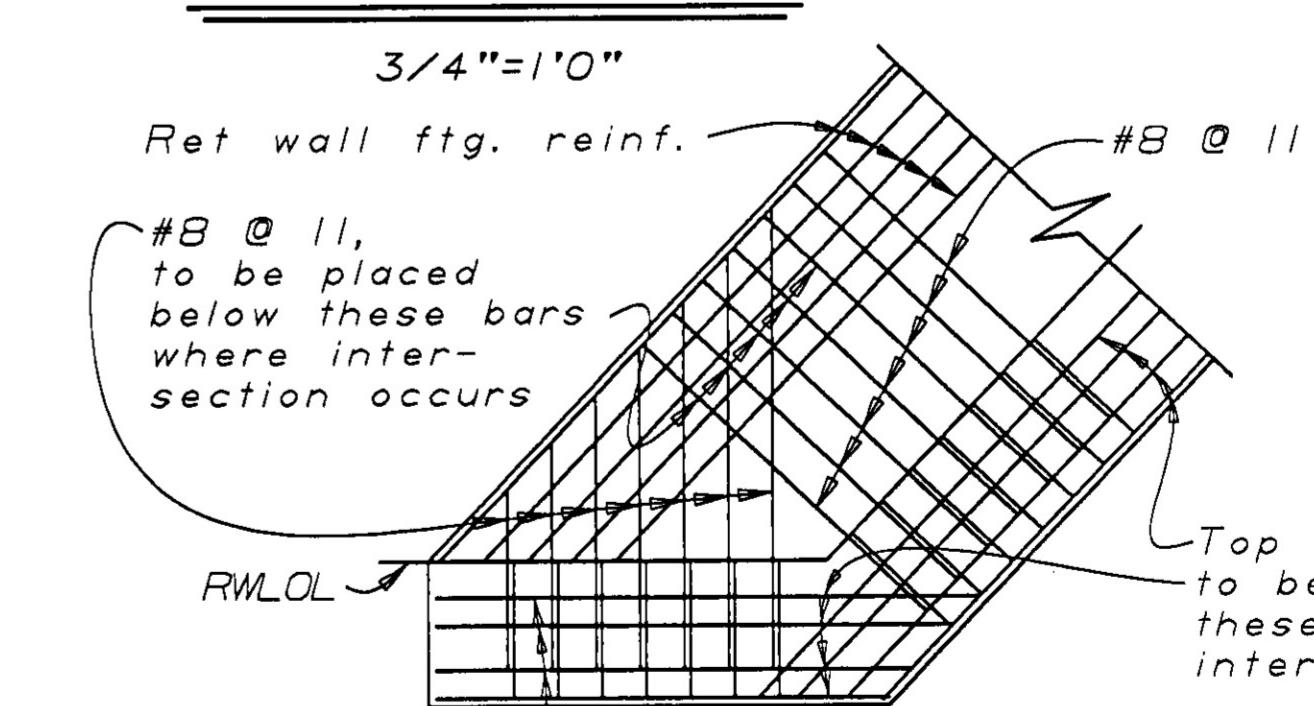
1/2"=1'0"

DETAIL "A"



SECTION C-C

1/2"=1'0"



**AS BUILT**  
CORRECTIONS BY WAYNE WALKER  
CONTRACT NO. 06-34354  
DATE 1-21-92

RET WALL FOOTING REINF. DETAIL

1/4"=1'0"

STATE OF  
**CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF STRUCTURES  
**STRUCTURE DESIGN 12**

BRIDGE NO.

42-81

POST MILE

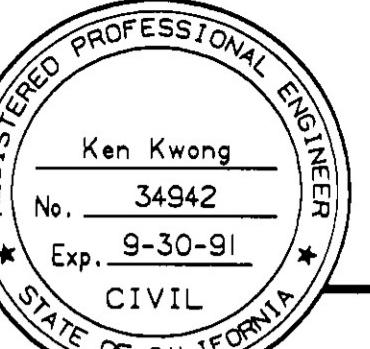
0.8

**COLE SLOUGH BRIDGE (WIDEN)****ABUTMENT DETAILS**

DESIGN BY D. Dunrud	CHECKED Ken Kwong	STATE OF <b>CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	BRIDGE NO. 42-81
DETAILS BY R. K. Wong 10-90	CHECKED Ken Kwong	DIVISION OF STRUCTURES <b>STRUCTURE DESIGN 12</b>	POST MILE 0.8
QUANTITIES BY D. Dunrud	CHECKED F. Cullinan		
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS			
0 1 2 3 CU 06 EA 343551			
DISREGARD PRINTS BEARING EARLIER REVISION DATES →			
10-90 8/2/90 8/16/90 8/27/90 11/6/90			
REVISION DATES (PRELIMINARY STAGE ONLY)			
3 7			

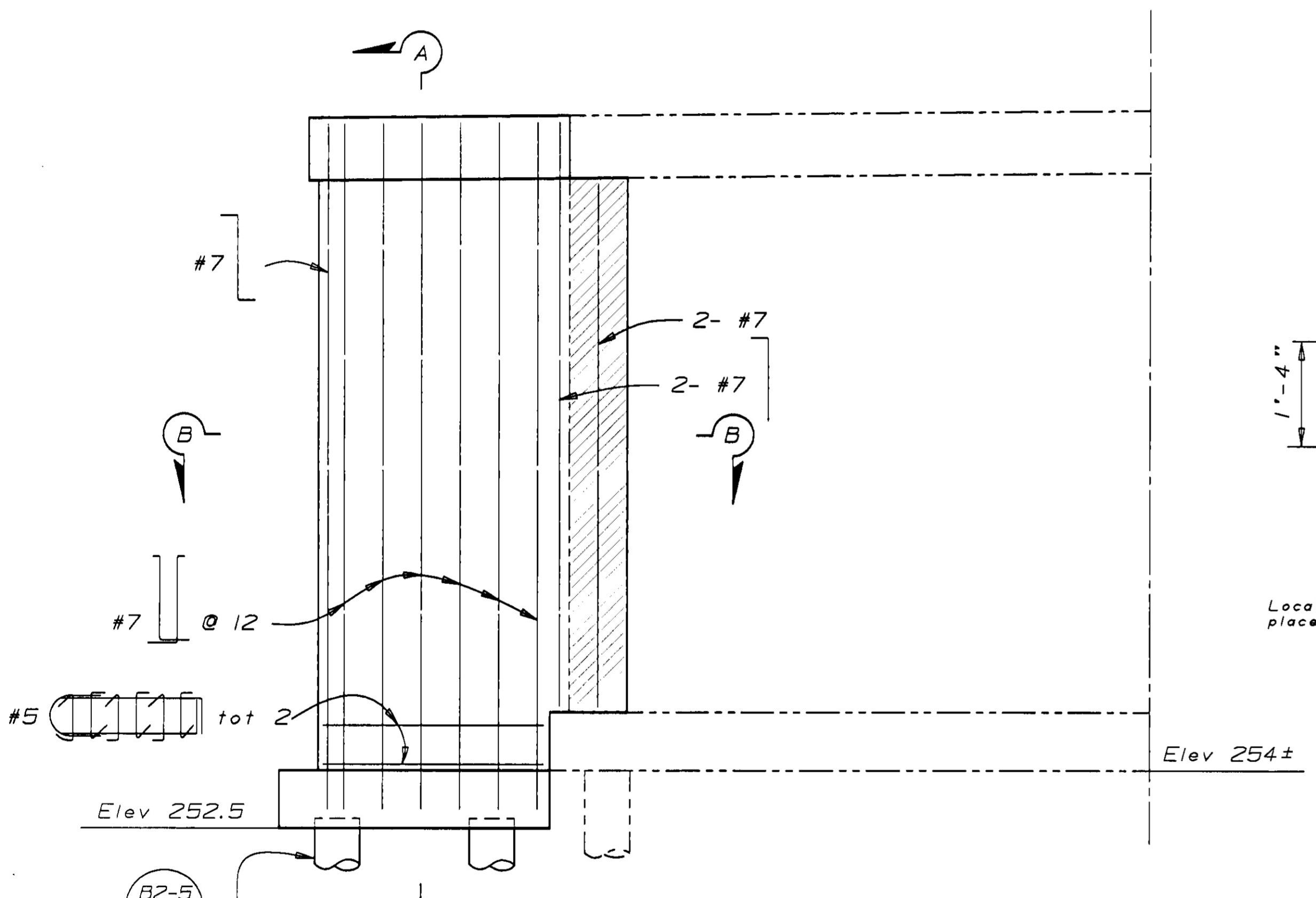
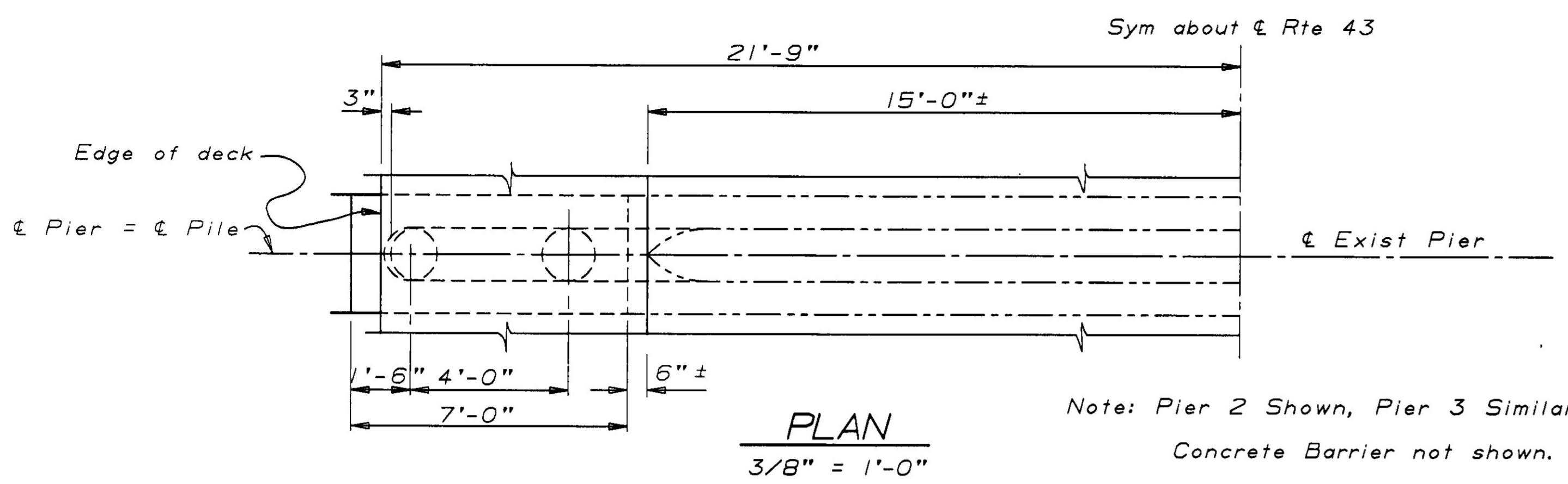
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/8.3	47	50

Ken Kwong  
REGISTERED ENGINEER CIVIL

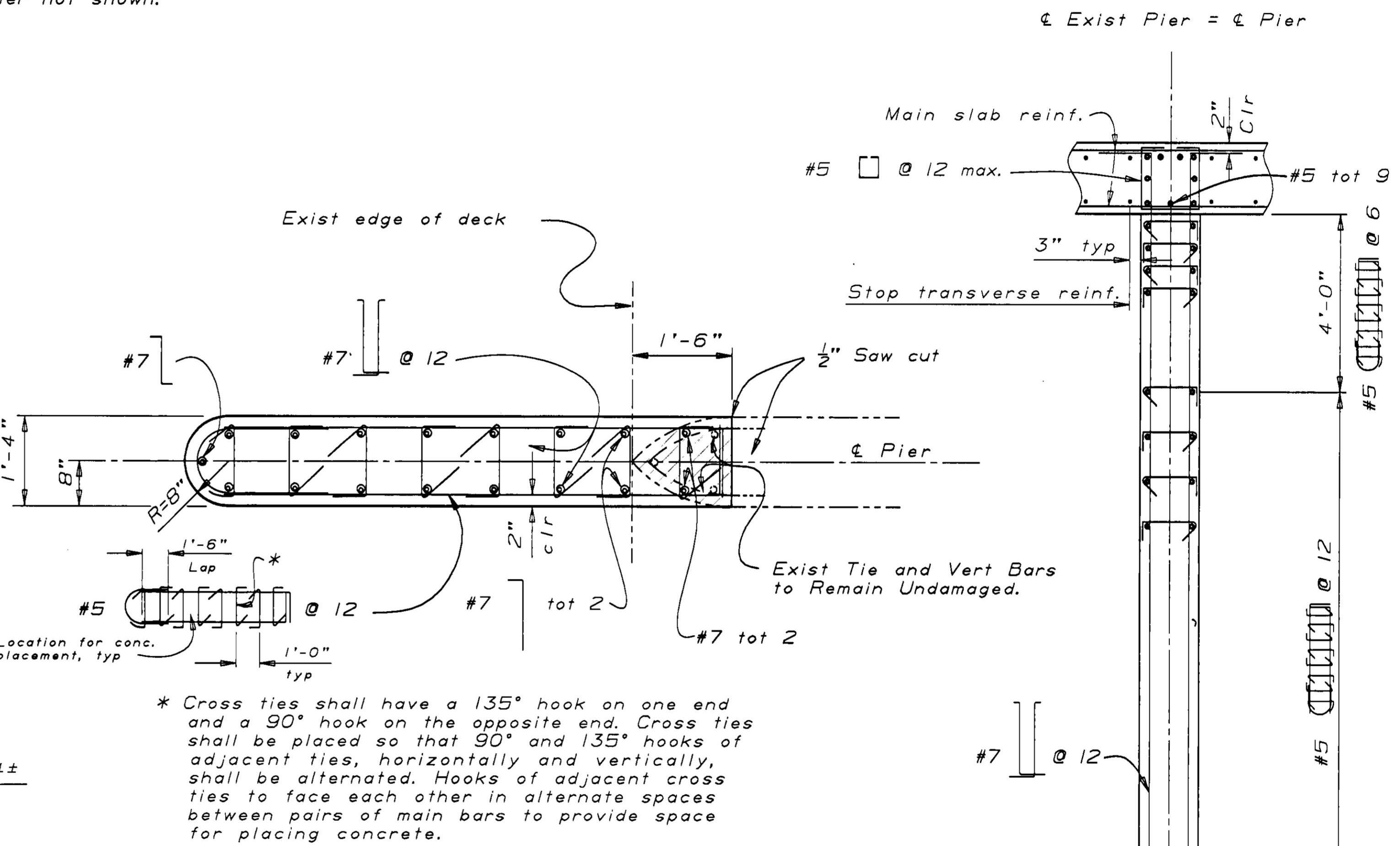


3-11-91

PLANS APPROVAL DATE



NOTE:  
THE CONTRACTOR SHALL VERIFY ALL  
CONTROLLING FIELD DIMENSIONS BEFORE  
ORDERING OR FABRICATING ANY MATERIAL



Note:  
- Denotes concrete removal

SECTION A-A  
1/2" = 1'-0"

AS BUILT  
CORRECTIONS BY HAYNE WALKER  
CONTRACT NO. 06-343554  
DATE 1-21-92  
NO AS BUILT CHANGES

STATE OF  
**CALIFORNIA**  
DIVISION OF STRUCTURES  
STRUCTURE DESIGN 12  
DEPARTMENT OF TRANSPORTATION

COLE SLOUGH BRIDGE (WIDEN)  
PIER DETAILS

DESIGN	B. D. Dunrud	CHECKED Ken Kwong
DETAILS	BY Fred Uyeno 10-90	CHECKED Ken Kwong
QUANTITIES	BY B. D. Dunrud	CHECKED F. Cullinan



GENERAL NOTES  
LOAD FACTOR DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS  
(1983 AASHTO with Interims and Revisions by CALTRANS)

DEAD LOAD: Includes 35 psf for future wearing surface.

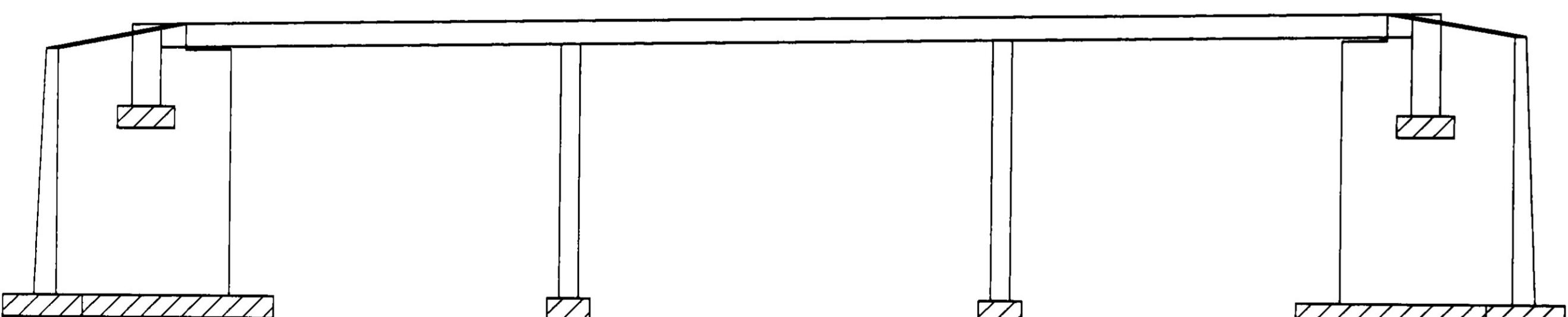
LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE:  $f_y = 60,000 \text{ psi}$   
 $f'_c = 3,250 \text{ psi}$   
 $n = 9$

Transverse deck slab (Working Stress Design)  
 $f_s = 20,000 \text{ psi}$   
 $f'_c = 1,200 \text{ psi}$   
 $n = 10$

FOOTING PRESSURE (TONS PER SF) ALLOWABLE DESIGN

Abut 1	2.0	1.7
Abut 4	2.0	1.7



■ Structural Concrete, Bridge

■ Structural Concrete, Bridge Footing

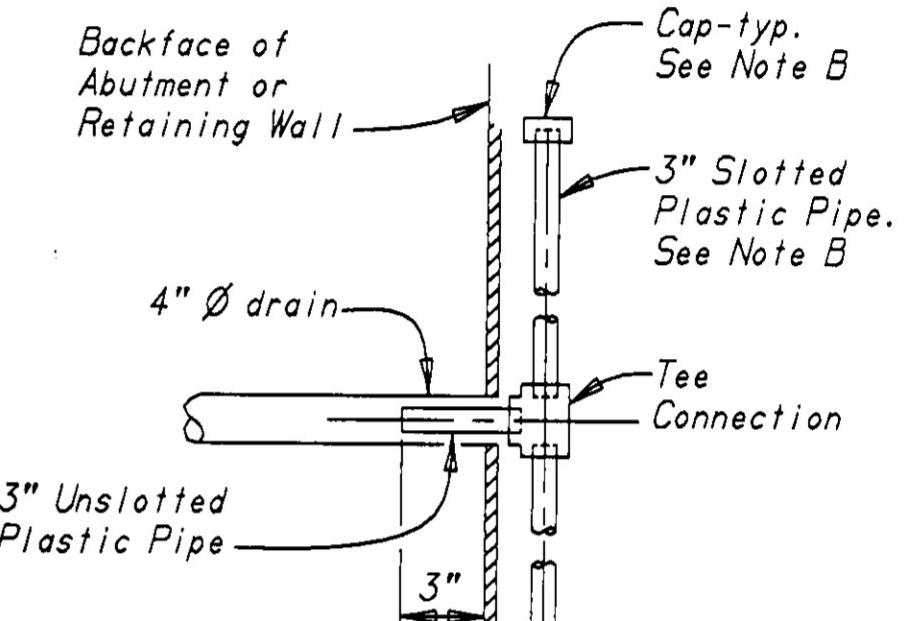
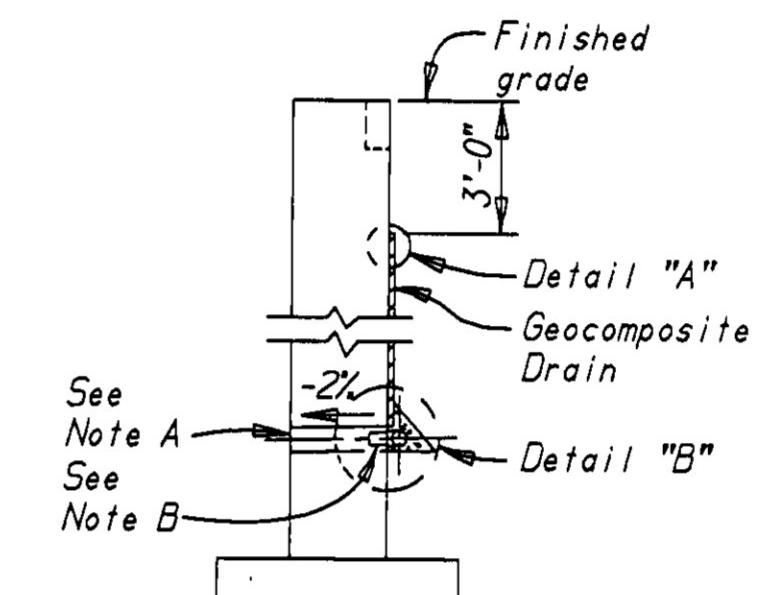
CONCRETE STRENGTH AND TYPE LIMITS

No Scale

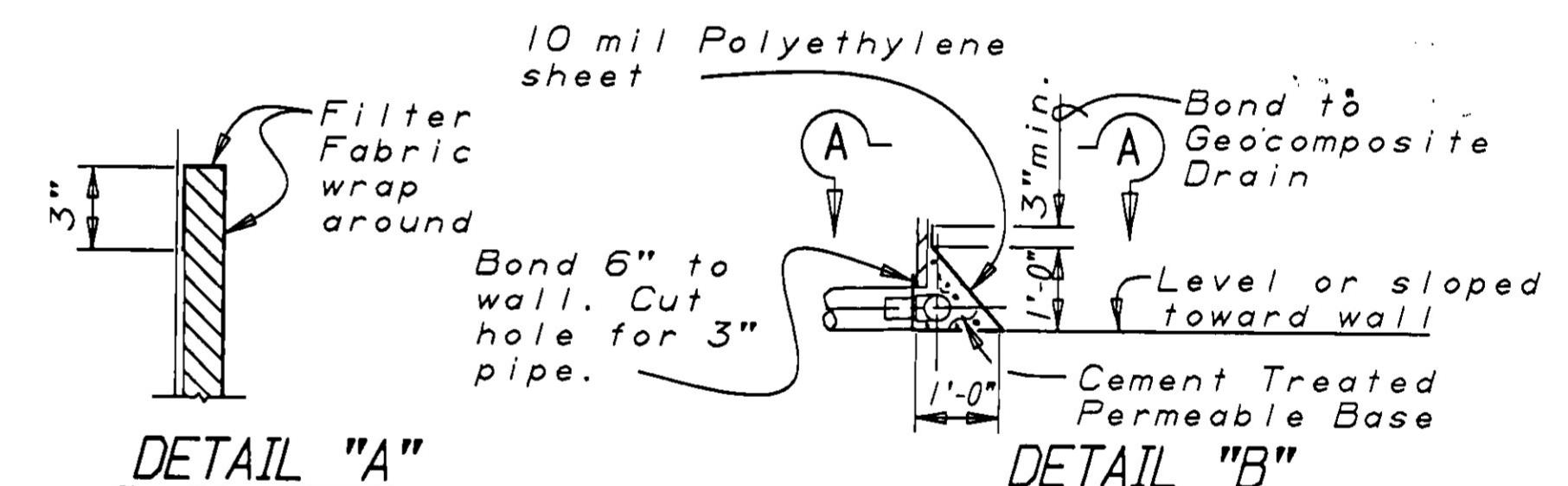
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/8.3	49	50

*Ken Kwong*  
REGISTERED ENGINEER - CIVIL  
Ken Kwong  
No. 34942  
Exp. 9-30-91  
CIVIL  
STATE OF CALIFORNIA

PLANS APPROVAL DATE  
3-11-91



WALL SECTION



WEEP HOLE AND GEOCOMPOSITE DRAIN

ALTERNATIVE TO BRIDGE DETAIL (80-3) - ALT. NOT USED

Notes: A. 4" Ø drains at intermediate sag points and at 25' max. center to center (9' c-c for Type 3 and 9'-3" c-c for Type 4 retaining walls). For walls adjacent to sidewalks or curbs, provide 4" cast iron or asbestos cement pipe under the sidewalk to discharge through curb face. Exposed wall drains shall be located 3" ± above finished grade.

B. Geocomposite drain, cement treated permeable base, and 3" Ø slotted plastic pipe continuous behind retaining wall or abutment. Cap ends of pipe. Provide "Tee" connection at each 4" Ø drain.

C. Connect the low end of plastic pipe to the main outlet pipe as applicable.

*NO BULL*

CORRECTIONS BY LAYNE JAKER  
CONTRACT NO. 06-342554  
DATE 1-21-92

STATE OF  
CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF STRUCTURES  
STRUCTURE DESIGN 12

COLE SLOUGH BRIDGE (WIDEN)  
MISCELLANEOUS DETAILS

BRIDGE NO.  
42-81  
POST MILE  
0.8

ORIGINAL SCALE IN INCHES  
FOR REDUCED PLANS

0 1 1 2 1 3  
CU 06  
EA 343551

DISREGARD PRINTS BEARING  
EARLIER REVISION DATES →

REVISION DATES (PRELIMINARY STAGE ONLY)

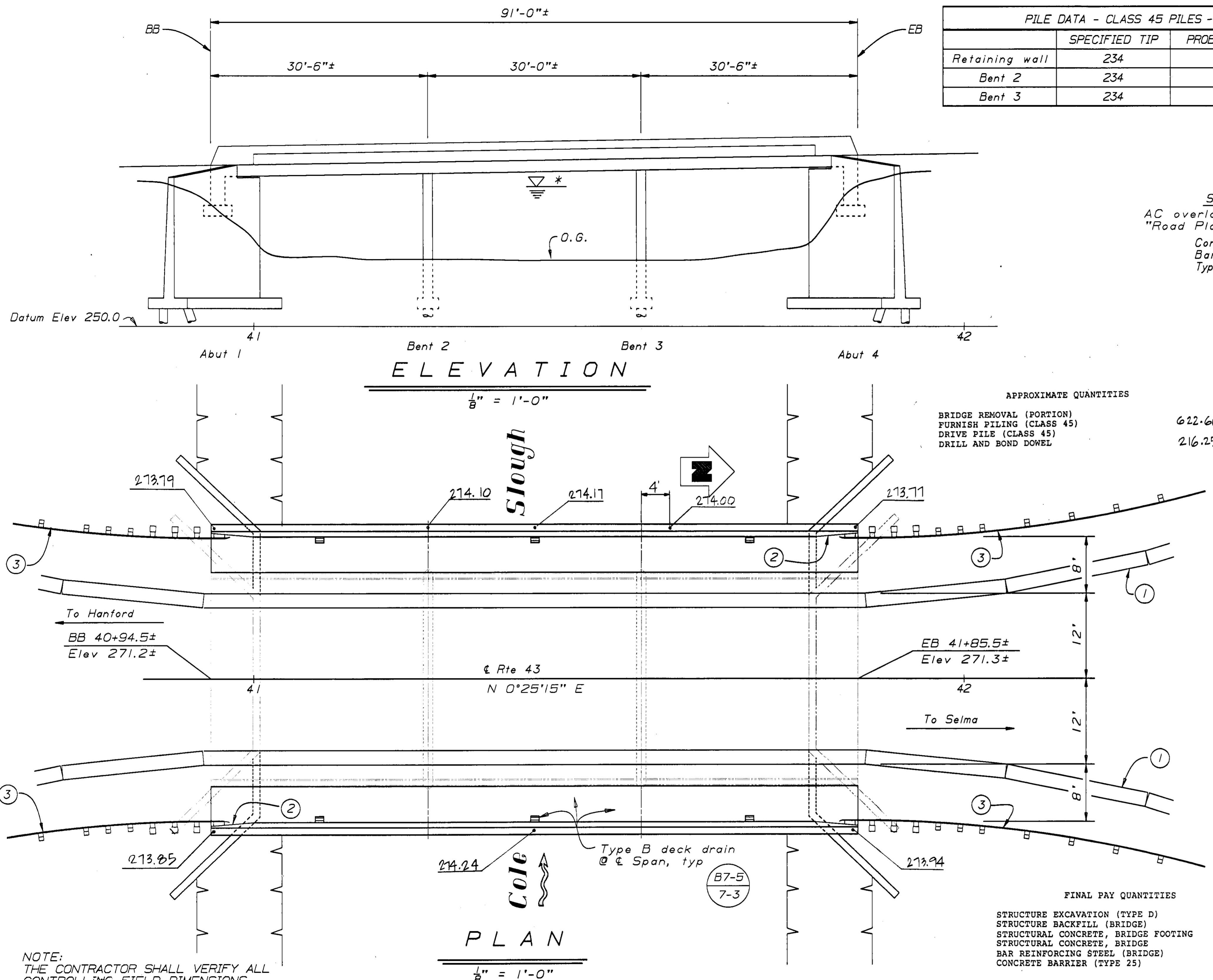
6 7

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/8.3	44	50

Ken Kwong  
REGISTERED ENGINEER - CIVIL  
No. 34942  
Exp. 9-30-91

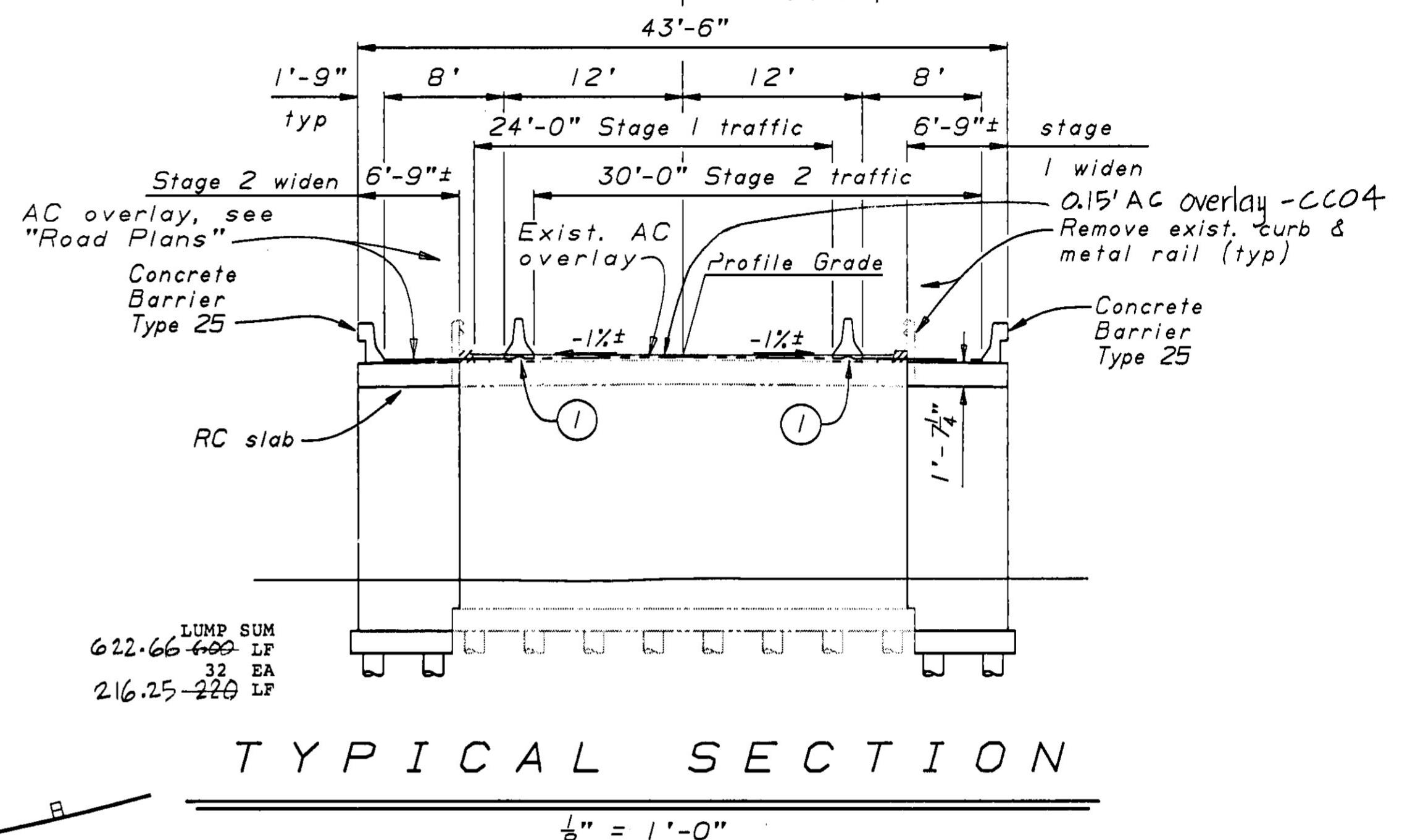
3-11-91  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA



PILE DATA - CLASS 45 PILES - TYPE "X"			
	SPECIFIED TIP	PROBABLE TIP	BEARING ELEV. ACTUAL TIP
Retaining wall	234	229	234 228.5
Bent 2	234	229	234 228.5
Bent 3	234	229	234 228.5

Longer Piles  
at discretion of  
Contractor's Choice



Indicates Concrete Removal

- (1) Temporary railing Type K, see "Road Plans".
- (2) Paint bridge name and number.
- (3) Metal beam guard rail, see "Road Plans".

AS BUILT  
CORRECTIONS BY WAYNE WALKER  
CONTRACT NO. 06-343554  
DATE 1-21-92

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	FOUNDATION PLAN
3	ABUTMENT DETAILS
4	PIER DETAILS
5	TypICAL SECTION
6	MISCELLANEOUS DETAILS
7	LOG OF TEST BORINGS

STANDARD PLANS DATED JANUARY, 1988

A62-B	EXCAVATION AND BACKFILL- BRIDGE SURCHARGE AND WALL
A62-C	EXCAVATION AND BACKFILL- BRIDGE
BO-1	BRIDGE DETAILS
BO-3	BRIDGE DETAILS
B2-5	PILE DETAILS-CLASS 45 & CLASS 70
B3-1	RETAINING WALL TYPE I H=4'-30'
B3-8	RETAINING WALL DETAILS NO. 1
B7-5	DECK DRAINS
B11-30	TEMPORARY RAILING (TYPE K)
B11-53	CONCRETE BARRIER TYPE 25

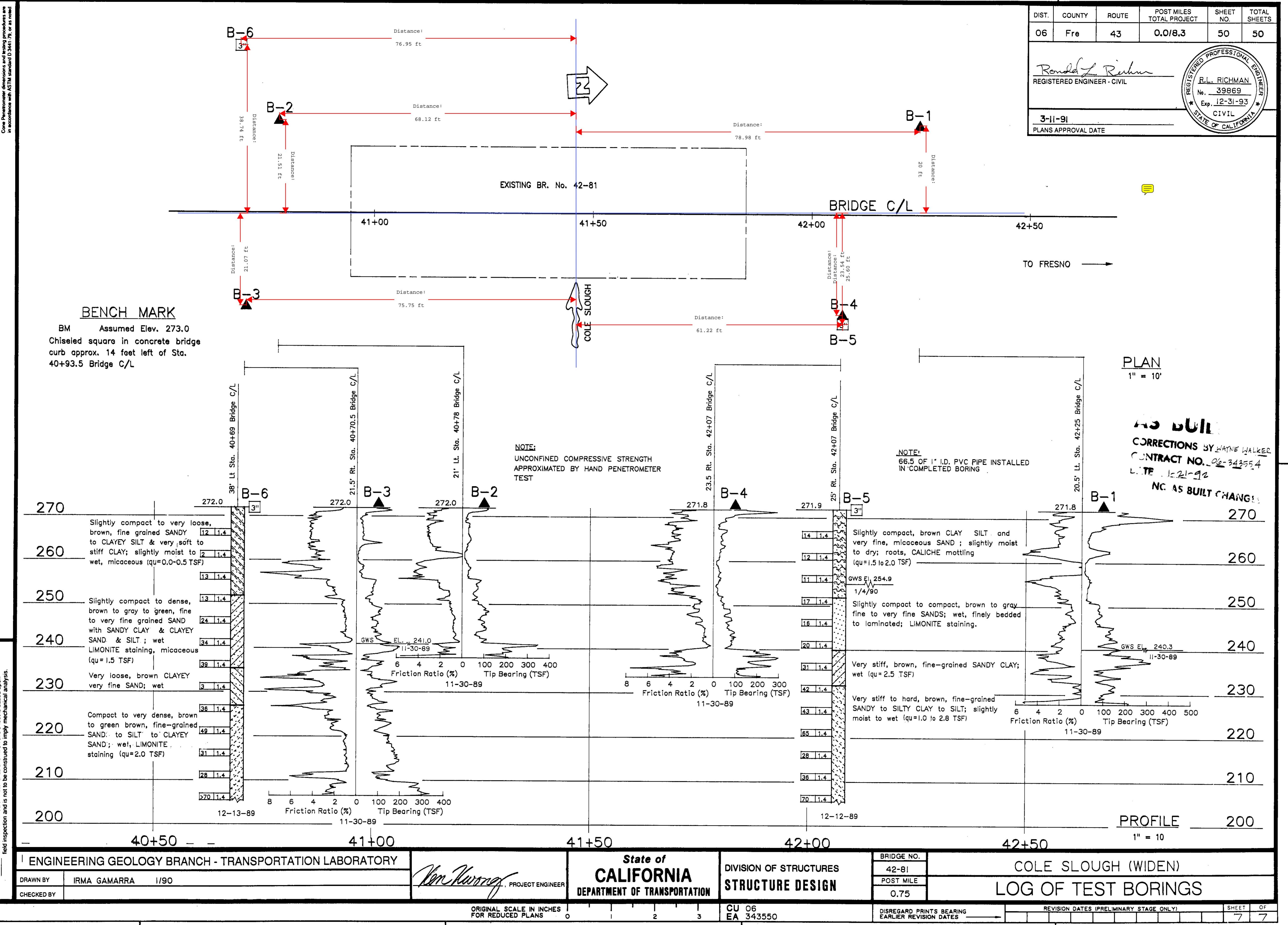
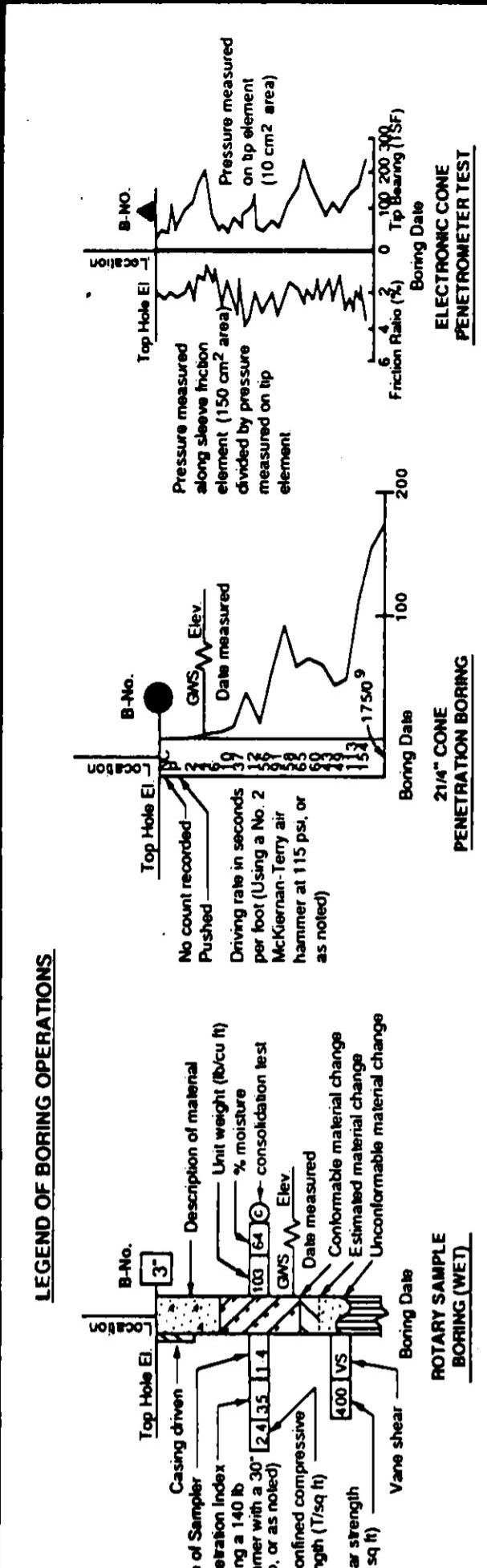
Standard Plan Sheet No.  
Detail No.

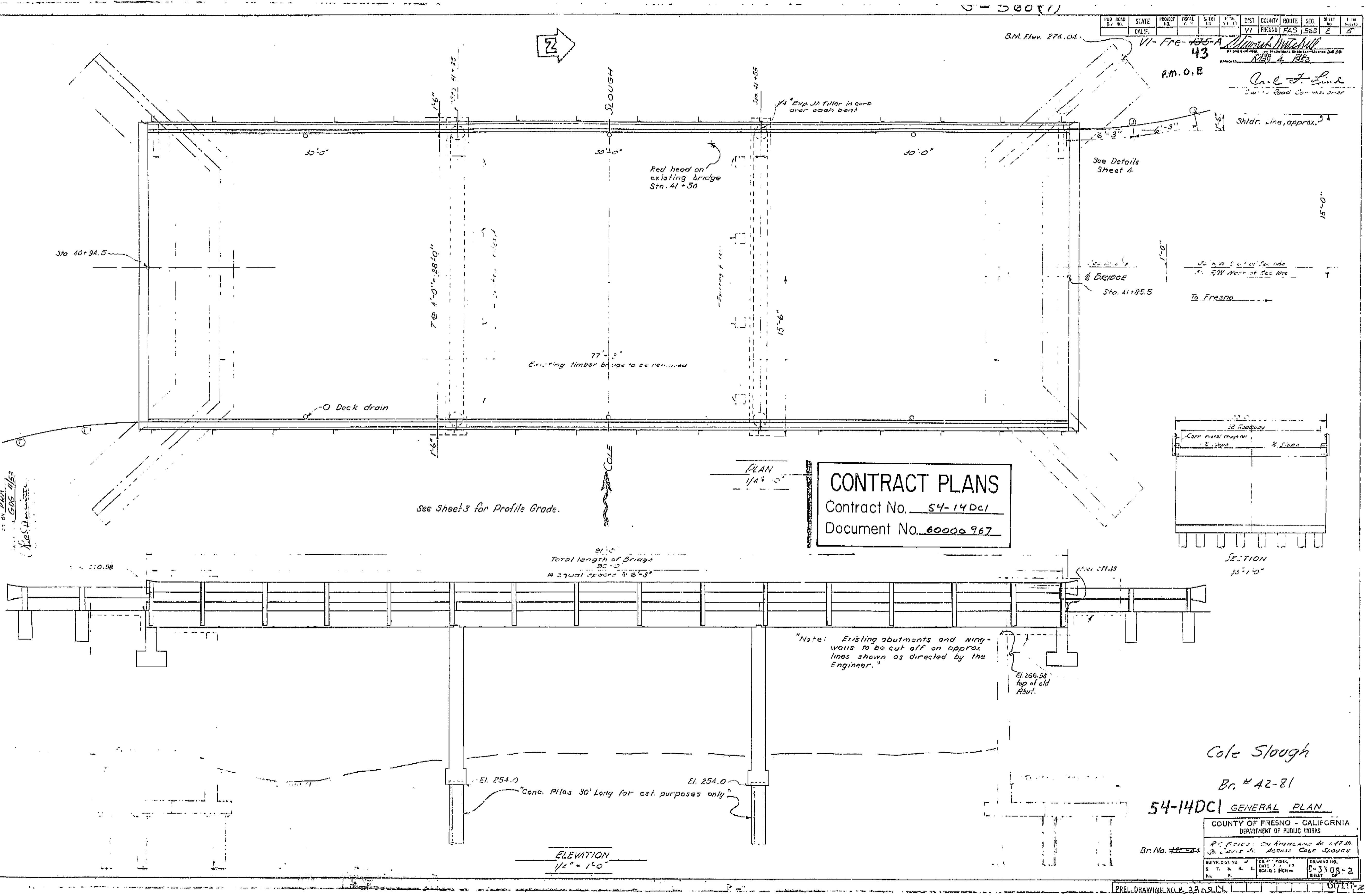
R. A. Rogerson DESIGN ENGINEER	DESIGN	B. Dunrud 8-90	CHECKED Ken Kwong 8-90	LOAD FACTOR DESIGN	LIVE LOADING HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 12	BRIDGE NO.	COLE SLOUGH BRIDGE (WIDEN)		
	DETAILS	By <i>R. A. Rogerson</i>	CHECKED Ken Kwong 8-90	LAYOUT	By D. Dunrud	CHECKED Ken Kwong		42-81	GENERAL PLAN		
	QUANTITIES	By D. Dunrud	CHECKED F. Cullinan 8-90	SPECIFICATIONS	By D. Dunrud 8-90	PLANS AND SPECS COMPARED		POST MILE	0.8	DISREGARD PRINTS BEARING EARLIER REVISION DATES	
DS OSD 2138 (CADD 4/89)											
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 CU 06 EA 343551											
REVISION DATES (PRELIMINARY STAGE ONLY) 9-26-90 9-28-90 10/4/90 8/2/90 8/8/90 8/17/90 11/6/90 12/7/90 1 7											

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Fre	43	0.0/8.3	50	50

*Ronald L. Richman*  
REGISTERED ENGINEER - CIVIL  
R.L. RICHMAN  
No. 39869  
Exp. 12-31-93  
CIVIL  
STATE OF CALIFORNIA

3-11-91  
PLANS APPROVAL DATE

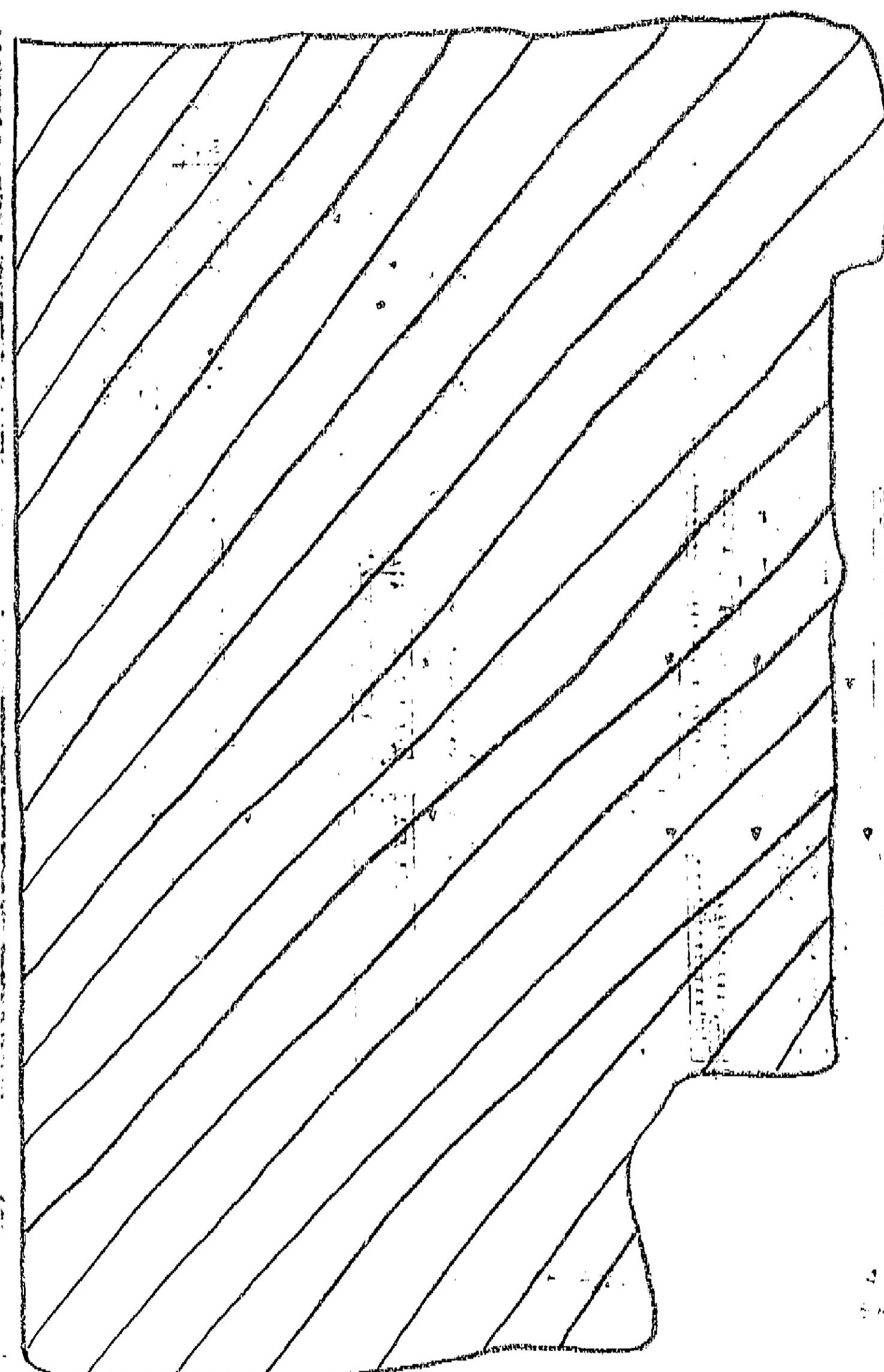




I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN  
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

S - 568 (7)

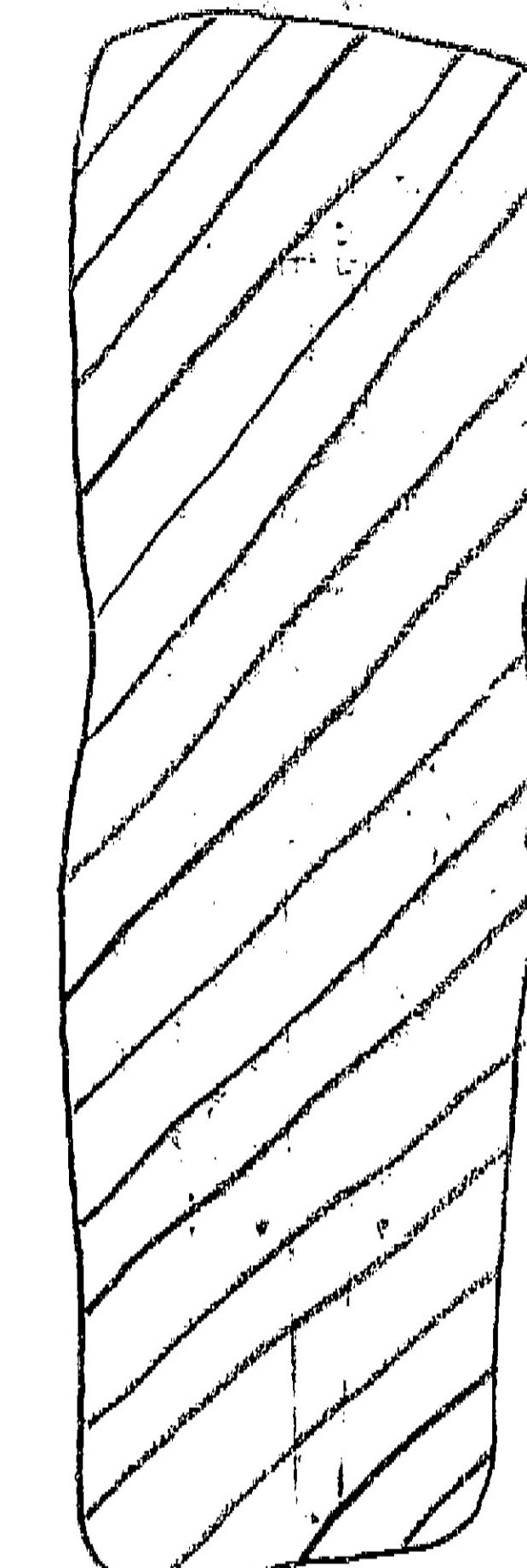
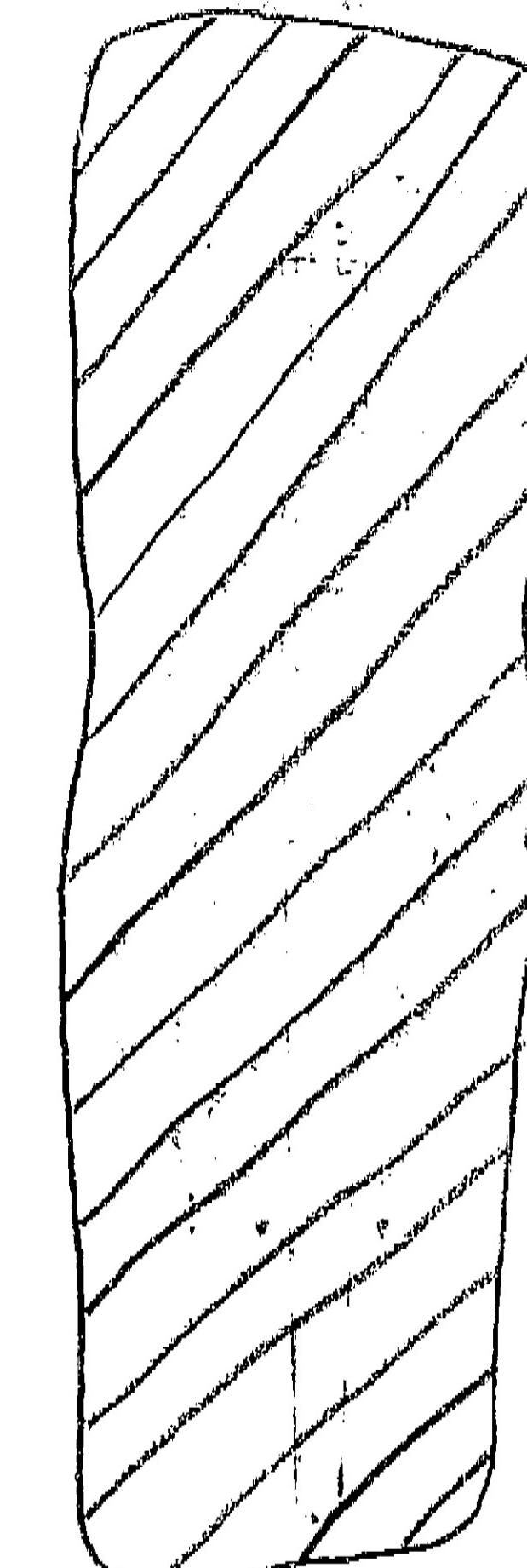
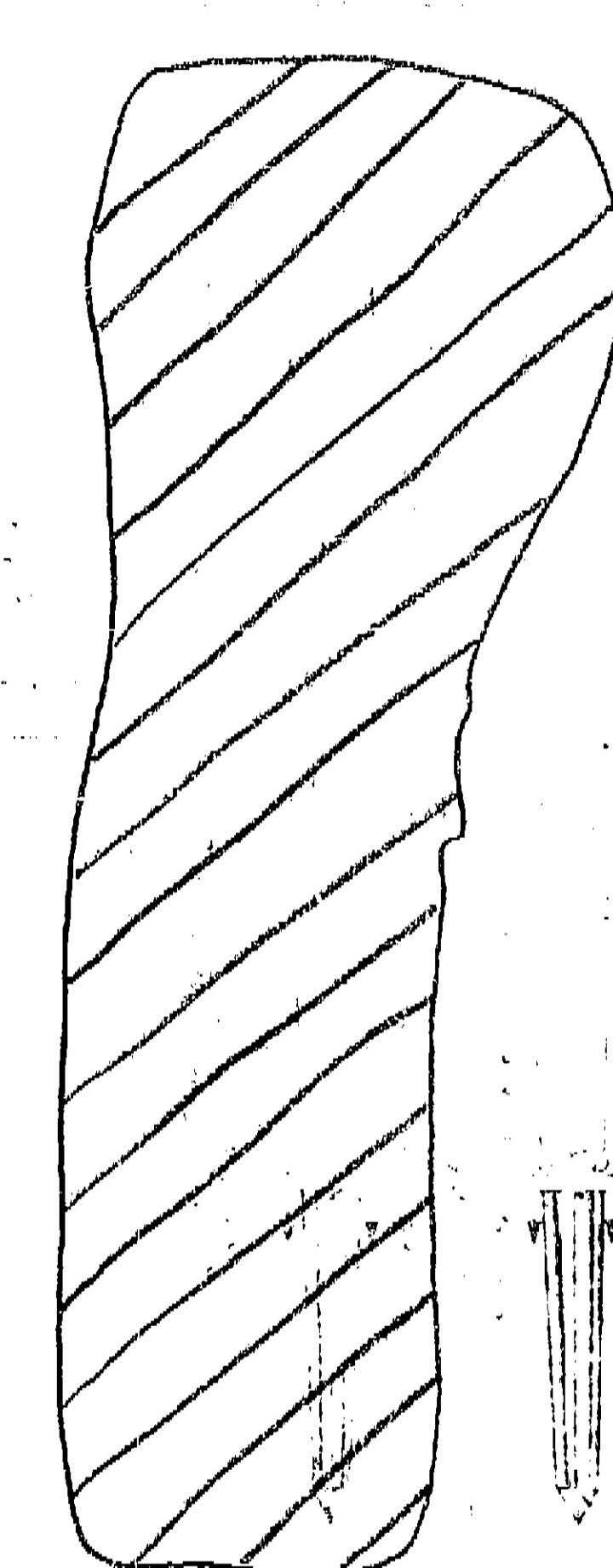
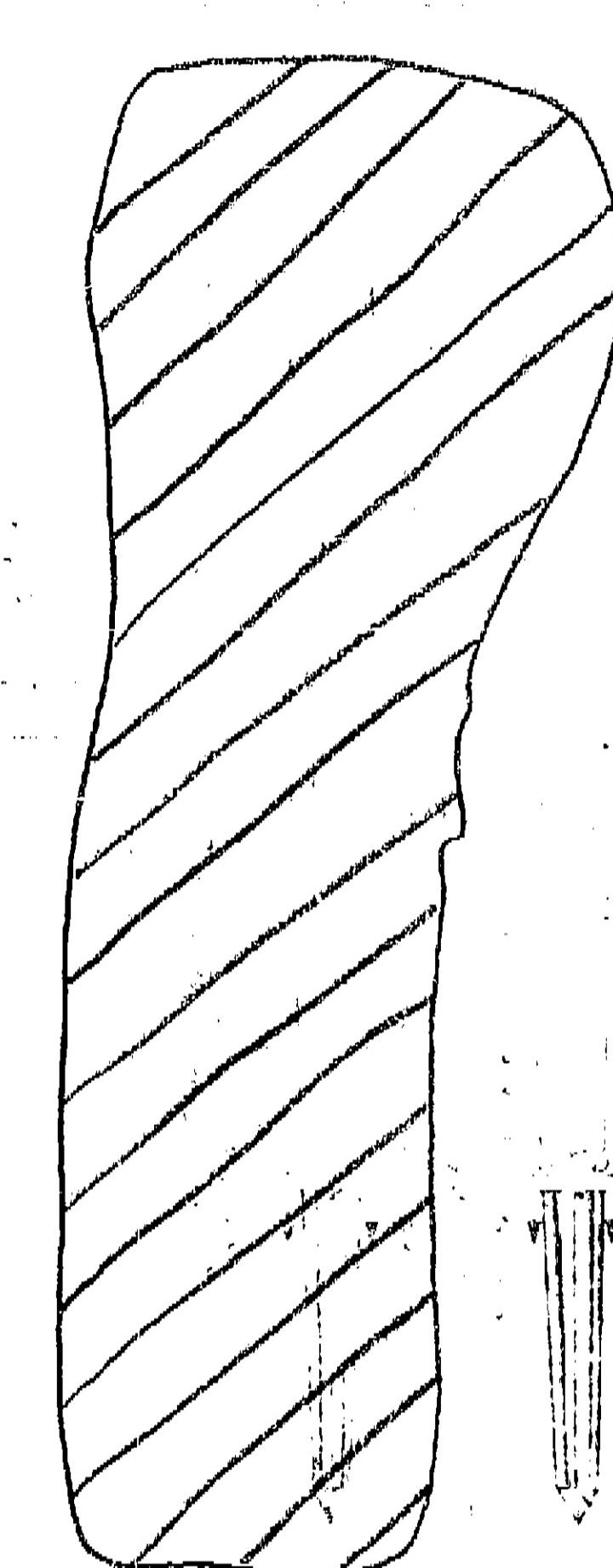
Div. No.	STATE	ROUTE NO.	ACRES	RS.	BILLIN
7	CAL.	43			
VI-FAS-568-5					
DATE APPROVED	May 4, 1953				
Stewart Mitchell	State Engineer, State Water Resources Control Board, License No. 568				



CONTRACT PLANS  
Contract No. 54-14061  
Document No. 60000 967

4' 0" WIDE PILE  
10' 0" LONG  
10' 0" WIDE AT BOTTOM  
10' 0" THICK

10' 0" HIGH RATE PILE  
10' 0" LONG  
10' 0" WIDE AT BOTTOM  
10' 0" THICK



Br# 42-81

BRIDGE ACROSS COLE SLOUGH

PILE DETAILS

Date 0-3308-5  
6016-5

5-560 (r)

P	B	LOAD IN	STATE	F	FCI IN	FISCAL YEAR	SHEET NO.	TOTAL S. 11	LMT.	COUNTY	ROUTE	SEC.	BUKEE NO.	TOTAL SHEETS
			CALIF.						TRENSO	FA5	568	3	5	

**STRUCTURAL ENGINEER**  
UNIVERSITY BUSINESS STRUCTURAL ENGINEER-LICENSE #5430  
APPROVED May 1st, 1953

APPROVED May 17, 1953

C. F. Lind  
Food Commissioner

Smooth up top  
of wall and place  
 $\frac{1}{16}$ " layer asbestos  
sheet packing.

1/2"φ Bar chains spaced at  
3 ft. + ctrs. transversely  
and 4 1/2 ft. + ctrs. longitudinal.

www.EasyEngineering.net

# CONTRACT PLANS

**CONTRACT**  
Contract No. S4-14 DCI  
Cont. No. 60000 96

Contract No. \_\_\_\_\_  
Document No. 6000096

The diagram illustrates a bridge deck reinforcement detail, labeled "PORT DECK REINFORCEMENT". It shows a cross-section of a bridge pier with dimensions and reinforcement details. Key features include:

- Metal Plate Bridge Rail:** Corrugated metal bridge railing.
- JO ROADWAY:** 14'-0" wide.
- Reinforcement:** 1/2" diameter bars.
- Vertical Spans:** 10'-2" height, 10'-2" length.
- Washers:** 3/4" diameter x 1/2" thick, cut washer.
- Post:** 10' high, 10" diameter.
- Chamfer:** 1/4" Chamfer.
- Radius:** 1/2" radius.
- Align. Post:** Alignment post.
- VEO Groove:** V-shaped groove.

Dimensions shown include 14'-0" total width, 10'-2" height, 10'-2" length, 10' post height, 10" post diameter, 1/4" chamfer, 1/2" radius, and 3/4" diameter washers.

Pier

2 1/2" bars @ 12' 0"

$\text{1 1/2"} \text{ bars } 13 \text{ ft } 6\text{" lg. sp}$

2 1/2" bars @ 12' 0"

1 1/2" bars 1 1/2" lg. sp  
12' 0" lg.

15' 0"

## Cole Slough

### DETAILS

COUNTY OF FRESNO - CALIFORNIA			
DEPARTMENT OF PUBLIC WORKS			
5 BRIDGE ON HIGHLAND AV. 147th 6 DAVIS AV. CROSS COLE 147TH			
VIL DIST. NO.	DIR. HCH CHG	DRAWING NO.	
T. S. R. E	DATE 10-20-59	C-3308-3	SHEET 1 OF 1
M	SCALE 1 INCH =		

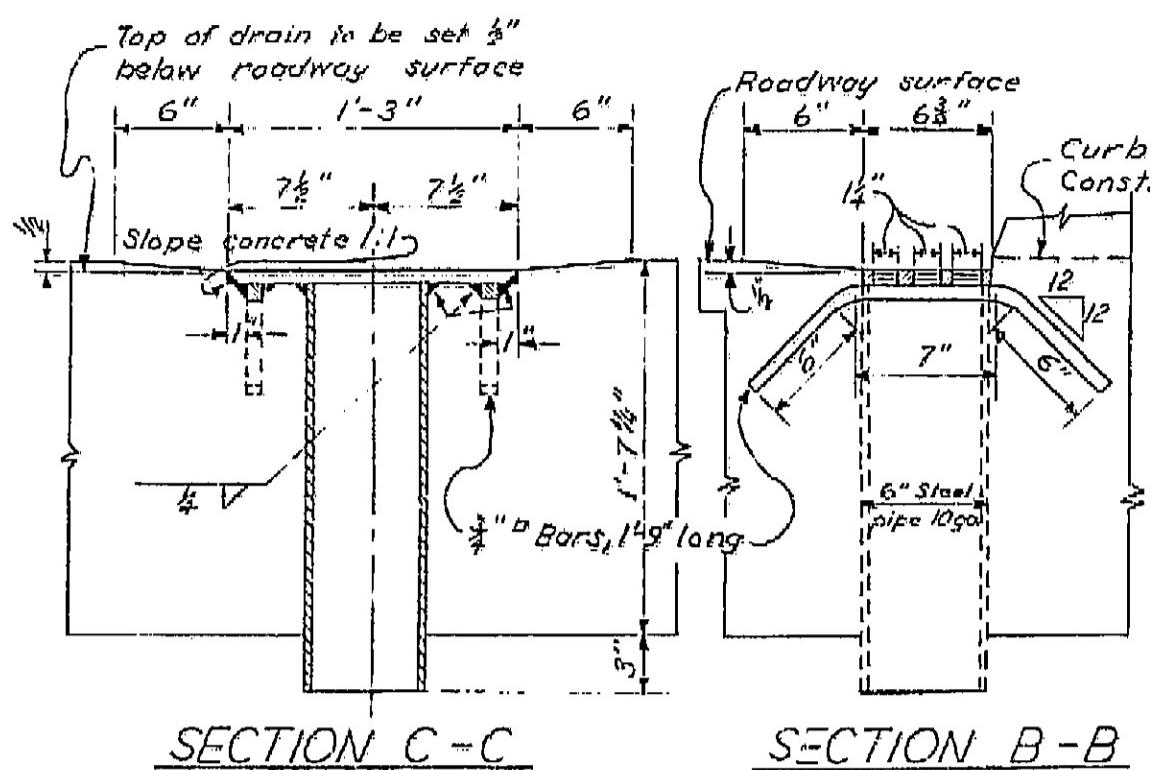
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN  
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

S-568 (7)

DIRT.	COUNTY	ROUTE	TA SECTION	BLK NO.	TOTAL THICKNESS	PERIOD ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	PERIOD BLK#	TOTAL THICKNESS
VI	Fres.	FAS	568	4	5	7	CAL.				

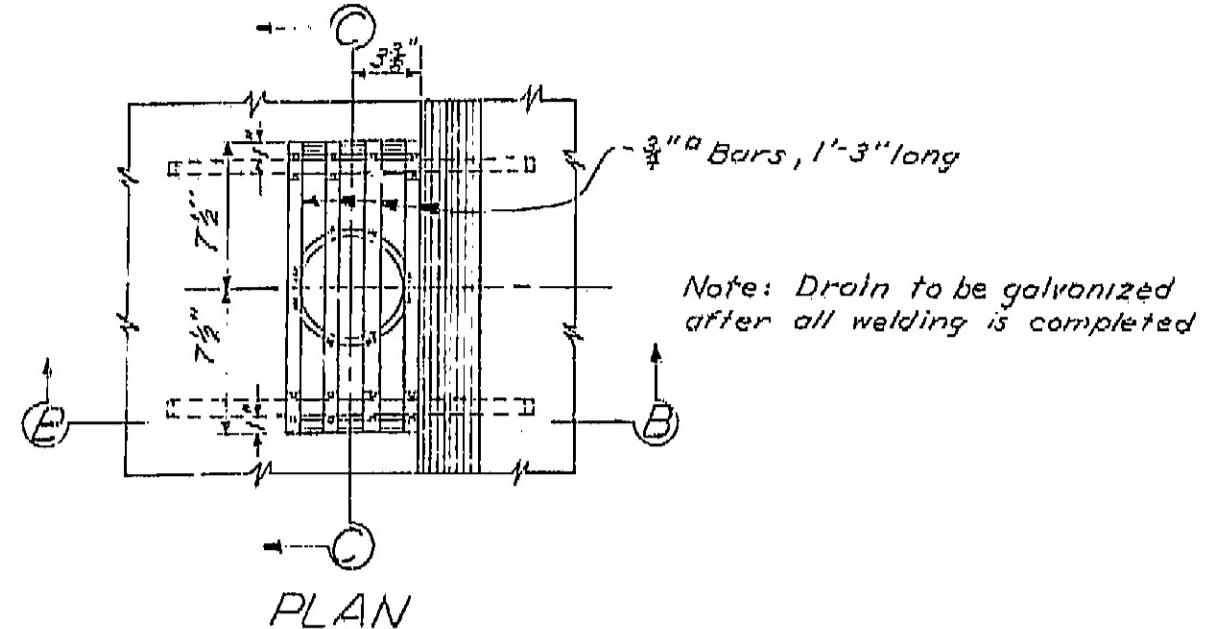
*VI - Fre - 195-1*  
*43*

APPROVED *May 4, 1953*



SECTION C-C

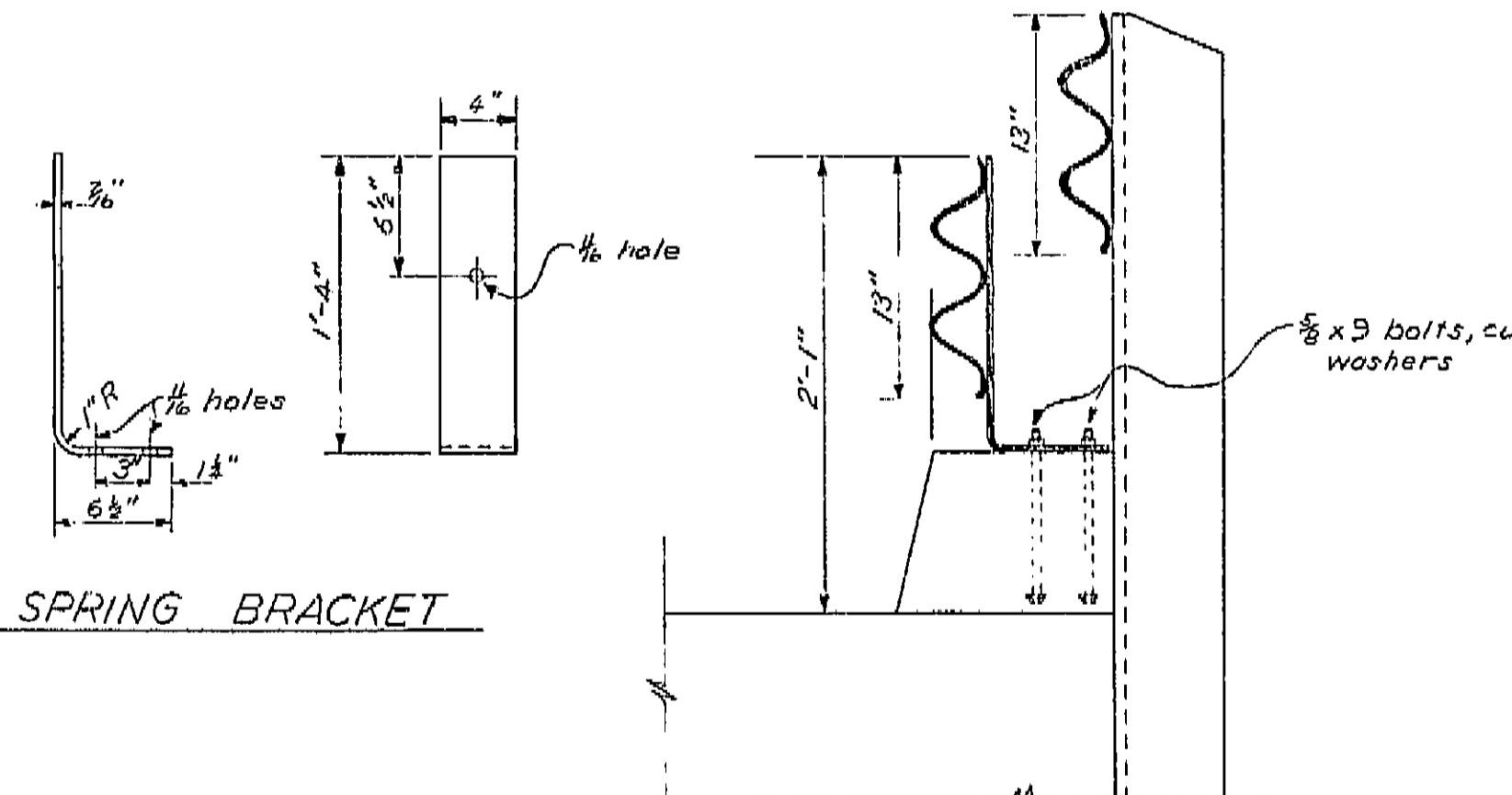
SECTION B-B



## PLAN

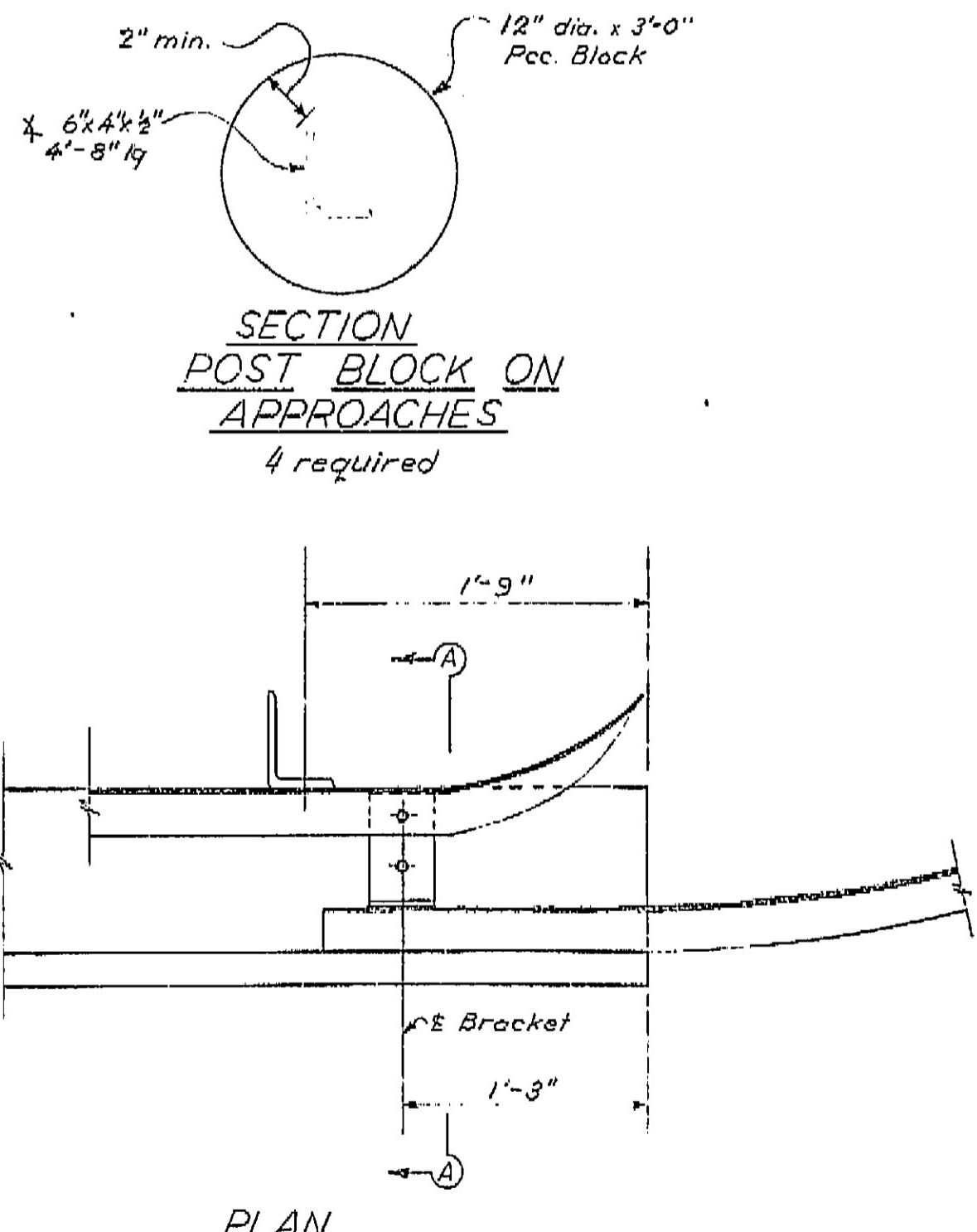
DRAIN DETAIL - 6 REQUIRED

Scale:  $1\frac{1}{2}'' = 1'-0''$



## SPRING BRACKET

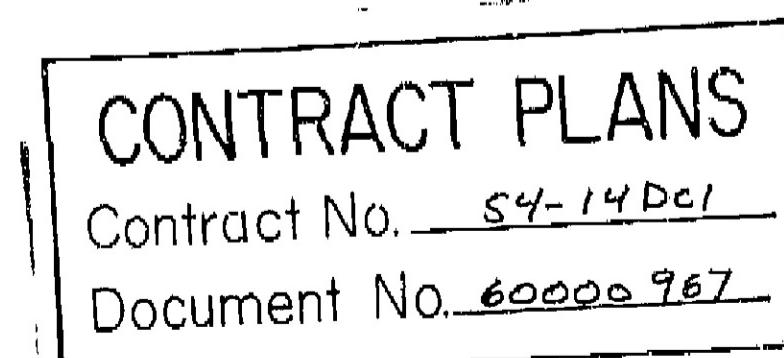
*SECTION A-A*



PLAN

METAL PLATE BRIDGE  
RAIL AT BRIDGE END

Scale:  $1\frac{1}{2}'' = 1'-0''$   
(Corrugated metal bridge railing)



I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN  
UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE July 4, 1971 SIGNATURE [Signature] TITLE Chairman, Committee (if any)

## MISCELLANEOUS DETAILS

**COUNTY OF FRESNO - CALIFORNIA**  
**DEPARTMENT OF PUBLIC WORKS**

PLAQUE NO. 111-100-1

11 PREI DRAWING NO. P-23A8